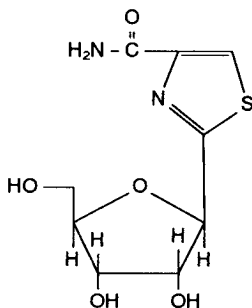


# TIAZOFURIN

NSC - 286193



**Chemical Name:**

2-β-*D*-Ribofuranosyl-4-thiazolecarboxamide

**Other Names:**

TCAR; Riboxamide

**CAS Registry Number:** 60084-10-8

**Molecular Formula:** C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>O<sub>5</sub>S

**M.W.:** 260.3

**Approximate Solubility:**

Soluble in water

**Stability:**

**Bulk:**

The compound was stable through 30 days at 60 °C in the dark (HPLC).

**Solution:**

In water < 1% decomposition occurs through 24 hours (HPLC).

**Ultraviolet Absorption:**

(95% Ethanol)

$$\lambda_{\max} = 236 \pm 2 \text{ nm}$$

$$\epsilon = 7,660 - 7,970$$

**High Performance Liquid Chromatography:**

**Column:**  $\mu$ Bondapak C<sub>18</sub>, 300 x 3.9mm i.d.

**Mobile Phase:** Methanol/1% acetic acid (10/90, v/v)

**Flow Rate:** 1.0 mL/min

**Detection:** UV at 254 nm

**Sample Preparation:** 0.25 mg/mL in water containing internal standard

**Internal Standard:** Thymidine, 0.3 mg/mL in water

**Retention Volume:** 5.0 mL (NSC-286193)

**Optical Rotation:**

(c = 0.914, DMF)

$$[\alpha]_D^{25} = -13.8 \pm 2^\circ$$

**Toxicity Data:**

Mouse(ip): LD<sub>50</sub>: 1684 mg/kg  
NCI Screening Program Data Summary

Mouse(iv): LD<sub>50</sub>: 3400 mg/kg  
National Technical Information Service, PB83-156901

Dog(iv): LD<sub>Lo</sub>: 1090 mg/kg  
National Technical Information Service, PB83-156901